

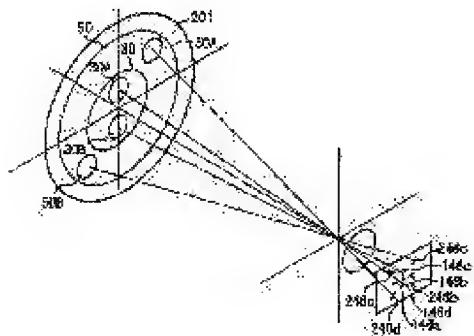
## PATENT ABSTRACTS OF JAPAN

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(21) Application number : **10-084564** (71) Applicant : **MINOLTA CO LTD**  
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(54) FOCUS POSITION DETECTING DEVICE



(57) Abstract:

PROBLEM TO BE SOLVED: To provide the focus position detecting device which can put a used lens in focus on an object or the part of the object with range finding precision corresponding to the full-aperture  $F$  value of the used lens.

SOLUTION: The focus position detecting device is provided with 1st range finding sensor groups 146a to 146d having short base length corresponding to pieces 30A and 30B of luminous flux passing through a pupil 30 with a 1st full-aperture F value (e.g. F6.7) of an image pickup optical system 201 and 2nd range finding sensor groups 246a to 246d having long base length corresponding to pieces 50A and 50B of luminous flux passing through a pupil 50 with a 2nd full-aperture F value (e.g. F2.8) of the image pickup optical system 201 in order to put the lens in focus on the same object at the center part of an image plane or the same part of the object; when an image pickup optical system having a full-aperture F value smaller than the 2nd full-aperture F value is mounted, the image pickup optical system is put in focus by using the 1st range finding sensor groups 146a to 146d and 2nd range finding sensor groups 246a to 246d are when an image pickup optical system which has a full-aperture F value larger than the 2nd full-aperture F value is mounted, the image pickup optical system is out in focus by using the 1st range finding sensor groups 146a to 146d.